Amendments to the Claims: This listing of claims will replace all prior versions, and listings, of claims in the application

Listing of Claims:

1.   (Currently Amended) An address information setting method comprising:

a step of detecting a~~trigger~~user input from a user;

a step of selecting a home agent to manage a mobile terminal from among routers to which the mobile terminal is connected, the selected home agent being chosen from a list of the routers responsive to the detected user input~~when the trigger is detected~~;

a step of generating a home address from the prefix distributed by the selected home agent~~selected~~; and

a step of carrying out a mobile IP procedure using the selected home agent and the generated home address.

2.   (Currently Amended) An address information setting method according to claim 1, further comprising a step of acquiring router information from a network to which the mobile terminal is connected, when the ~~trigger~~user input is detected.

3.   (Currently Amended) An address information setting method according to claim 1,

wherein in the selection of a~~the~~ home agent, a~~the~~ home agent is selected from among the routers whose flag, indicating that it is a home agent, is on, this flag included in acquired information regarding the routers.

4.   (Currently Amended) An address information setting method according to claim 3,

wherein in the selection of a~~the~~ home agent, from among the routers whose flag is on, a predetermined number of routers are selected according to a preference defined in advance, in order from ~~the~~ one with a highest priority.

5.   (Currently Amended) An address information setting method according to claim 3,

wherein in the selection step of a̶the home agent, a̶the home agent is selected arbitrarily from among the routers whose flag is on.

6.   (Currently Amended)   An address information setting method according to claim 3, further comprising a step of acquiring, from t̶h̶e̶ a user, criteria for selecting a̶ the home agent from among the routers whose flag is on,

wherein in the step of selecting a̶ the home agent, a̶ the home agent is selected according to the criteria.

7.   (Currently Amended)   An address information setting method according to claim 1, further comprising a step of notifying t̶h̶ea user when the selection of a̶the home agent is completed.

8.   (Currently Amended)   An address information setting method according to claim 2,

wherein the selection of a̶the home agent is performed using router information acquired during a time period designated by t̶h̶ea user.

9.   (Currently Amended)   A mobile terminal comprising:

an input unit through which a user inputs a trigger for setting information regarding a home agent;

an information setting unit that selects a home agent to manage the mobile terminal from among t̶h̶e̶ routers to which the mobile terminal is connected when the mobile terminal receives the trigger, and sets the address of the home agent and a home address which is generated from t̶h̶e̶ a prefix distributed by the home agent as information regarding the home agent, the selected home agent being chosen from a list of the routers responsive to the user inputting the trigger; and

mobile IP processing means that carries out a mobile IP procedure using the information regarding the home agent.

10.   (Currently Amended)   A mobile terminal according to claim 9, further comprising:

a transmitting unit that transmits a router information request message for requesting router information from a network to which the mobile terminal is connected, when a~~the~~ trigger from the input unit is received; and

a receiving unit that receives router information response messages that are responses to the router information request message,

wherein the information setting unit selects a~~the~~ home agent to manage the mobile terminal from among the routers that have transmitted the router information response messages.

11.   (Currently Amended)   A mobile terminal according to claim 9,

wherein the information setting unit selects a~~the~~ home agent from among routers whose flag indicating that the home agent is included in the router information of the router information response messages is on.

12.   (Currently Amended)   A mobile terminal according to claim 11,

wherein in the selection of a~~the~~ home agent, from among the routers whose flag is on, a predetermined number of routers are selected according to a preference defined in advance, in order from ~~the~~ one with a highest priority.

13.   (Currently Amended)   A mobile terminal according to claim 11,

wherein the information setting unit selects a~~the~~ home agent arbitrarily from among the routers whose flag is on.

14.   (Currently Amended)   A mobile terminal according to claim 11,

wherein through a~~n~~the input unit the user enters selection criteria for the selection of a~~the~~ home agent to be performed by the information setting unit, and

the information setting unit performs the selection of a~~the~~ home agent based on ~~the basis of~~ the selection~~these~~ criteria.

15.   (Currently Amended)   A mobile terminal according to claim 9,

wherein the input unit ~~may be~~is a soft key on a screen, a button set in a main body, or a switch set in the main body.

16.   (Currently Amended)   A mobile terminal according to claim 9, further comprising a display unit that notifies the user that ~~the~~ setting of information regarding ~~a~~ the home agent is completed.

17.   (Currently Amended)   A mobile terminal according to claim 9,

wherein the input unit designates ~~the~~a time period in which ~~the~~ information regarding ~~a~~the home agent is set, and

the information setting unit sets the information only in ~~this~~the designated time period.

18.   (Currently Amended)   A mobile terminal according to claim ~~15~~17,

wherein the time period is a period in which ~~the~~a soft key, ~~the~~a button, or ~~the~~a switch used as the input unit is in ~~the~~an ~~state~~ 'ON' state.

19.   (Currently Amended)   An address information setting method according to claim 2,

wherein in the selection of ~~a~~selecting the home agent, ~~a~~ the home agent is selected from among the routers whose flag, indicating that it is ~~a~~the home agent, is on, ~~this~~the flag being included in acquired information regarding the routers.

20.   (Currently Amended)   An address information setting method according to claim 19,

wherein in the selection of ~~a~~the home agent, from among the routers whose flag is on, a predetermined number of routers are selected according to a preference defined in advance, in order from ~~the~~ one with a highest priority.

21.   (Currently Amended)   An address information setting method according to claim 19,

wherein in the selection step of selecting ~~a~~the home agent, ~~a~~the home agent is selected arbitrarily from among the routers whose flag is on.

22.   (Currently Amended)   An address information setting method according to claim 19, further comprising a step of acquiring, from ~~the~~ a user, criteria for selecting ~~a~~ the home agent from among the routers whose flag is on,

wherein in the step of selecting a the home agent, a the home agent is selected according to the criteria.

23.   (Currently Amended)   An address information setting method according to claim 2, further comprising a step of notifying ~~the~~ a user when the selection of a the home agent is completed.

24.   (Currently Amended)   A mobile terminal according to claim 10,

wherein the information setting unit selects a the home agent from among the routers whose flag, indicating that the home agent is included in the router information of the router information response messages, is on.

25.   (Currently Amended)   A mobile terminal according to claim 24,

wherein in the selection of a the home agent, from among the routers whose flag is on, a predetermined number of routers are selected according to a preference defined in advance, in order from ~~the~~ one with a highest priority.

26.   (Currently Amended)   A mobile terminal according to claim 24,

wherein the information setting unit selects a the home agent arbitrarily from among the routers whose flag is on.

27.   (Currently Amended)   A mobile terminal according to claim 24,

wherein through ~~an~~ the input unit the user enters selection criteria for the selection of a the home agent to be performed by the information setting unit, and

the information setting unit performs the selection of a the home agent based on the selected ~~the basis of these~~ criteria.

28.   (Currently Amended)   A mobile terminal according to claim 10,

wherein the input unit ~~may be~~is a soft key on a screen, a button set in a main body, or a switch set in the main body.

29.   (Currently Amended)   A mobile terminal according to claim 10, further comprising a display unit that notifies the user that ~~the~~ setting of information regarding a<u>the</u> home agent is completed.

30.   (Currently Amended)   A mobile terminal according to claim 10,

wherein the input unit designates ~~the~~a time period in which ~~the~~ information regarding a<u>the</u> home agent is set, and

the information setting unit sets the information only in ~~this~~<u>the designated time</u> period.

31.   (Currently Amended)   A mobile terminal according to claim ~~28~~<u>30</u>,

wherein the <u>designated </u>time period is a period in which ~~the~~a soft key, ~~the~~a button, or ~~the~~a switch used as the input unit is in ~~the~~a state 'ON'.

32.   (New) The method according to claim 1, further comprising:

indicating in the list of routers whether each home agent from among the routers supports mobile routing; and

establishing a connection of the mobile router to another home agent that does not support mobile routing when the mobile router changes operations from those of a mobile router function to those of a mobile terminal function.